

5'	9	GTT	CGA	TGA	AAG	AAT	TGC	CGC	TTT	TCA	AAC	AAA	GAG	TGG	AAC	AGC	CTC	GGA	GAT	54
	63	GGG	AAC	AGA	GAG	GGC	GAT	GGG	GCT	GTC	AGA	AGA	ATG	GAC	TGT	GCA	CAG	CCA	AGA	108
	117	GGC	CAC	CAC	TTC	GGC	TTG	GAG	CCC	TTC	CTT	TCT	TCC	TGC	TTT	GGA	GAT	GGG	AGA	162
	171	GCT	GAC	CAC	GCC	TTC	TAG	GAA	GAG	AAA	TTC	CTC	AGG	ACC	AGA	TCT	CTC	CTG	GCT	216
	225	GCA	TTT	CTA	CAG	GAC	AGC	AGC	TTC	CTC	TCC	TCT	CTT	AGA	CCT	TTC	CTC	ACC	TTC	270
	279	TGA	AAG	TAC	AGA	GAA	GCT	TAA	CAA	CTC	CAC	TGG	CCT	CCA	GAG	CTC	CTC	AGT	CAG	324
	333	TCA	AAC	AAA	GAC	AAT	GCA	TGT	TGC	TAC	CGT	GTT	CAC	TGA	TGG	TGG	CCC	GAG	AAC	378
	387	GCT	GCG	ATC	TTT	GAC	GGT	CAG	TCT	GGG	ACC	TGT	GAG	CAA	GAC	AGA	AGG	CTT	CCC	432
	441	CAA	GGA	CTC	CAG	AAT	TGC	CAC	GAC	TTC	ATC	CTC	AGT	CCT	TCT	TTC	ACC	CTC	TGC	486
	495	AGT	GGA	ATC	GAG	AAG	AAA	CAG	TAG	AGT	AAC	TGG	GAA	TCC	AGG	GGA	TGA	GGA	ATT	540

FIGURE 1A



927	936	945	954	963	972
GCA CCA CGT GGA GAA CGT TCA ATC GCT GGG ATT AGC TAC GGT CAA GTG CGT GGC					
---	---	---	---	---	---
A P R G E R S I A G I S Y G Q V R G					
981	990	999	1008	1017	1026
ACA GCT ATT GAA CAA AGG ACT TCC AGC GAC CAC ACA GAC CAC ACC TAC CTG TCA					
---	---	---	---	---	---
T A I E Q R R T S S D H T D H T Y L S					
1035	1044	1053	1062	1071	1080
TCT ACT TTC ACC AAA GGA GAA CGG GCG TTA CTG TCC ATT ACA GAT AAC AGT TCA					
---	---	---	---	---	---
S T F T K G E R A L L S I T D N S S					
1089	1098	1107	1116	1125	1134
TCC TCA GAC ATT GTG GAG AGC TCA ACT TCT TAT ATT AAA ATC TCA AAC TCT TCA					
---	---	---	---	---	---
S S D I V E S S T S Y I K I S N S S					
1143	1152	1161	1170	1179	1188
CAT TCA GAG TAT TCC TCC TTT TCT CAT GCT GCT CAG ACT GAG AGA AGT AAC ATC TCA					
---	---	---	---	---	---
H S E Y S S F S H A Q T E R S N I S					
1197	1206	1215	1224	1233	1242
TCC TAT GAC GGG GAA TAT GCT GCT CAG CCT TCT ACT GAG TCG CCA GTT CTG CAT ACA					
---	---	---	---	---	---
S Y D G E Y A Q P S T E S P V L H T					

FIGURE 1C

1251	1260	1269	1278	1287	1296
TCC AAC CTT CCG TCC TAC ACA CCC ACC ATT AAT ATG CCG AAC ACT TCG GTT GTT					
S N L P S Y T P T I N M P N T S V V					
1305	1314	1323	1332	1341	1350
CTG GAC ACT GAT GCT GAG TTT GTT AGT GAC TCC TCC TCC TCT TCC TCC TCC					
L D T D A E F V S D S S S S S S S					
1359	1368	1377	1386	1395	1404
TCC TCT TCT TCT TCA GGG CCT CCT TTG CCT CTG CCC TCT GTG TCA CAA TCC					
S S S S S S G P P L P L P S V S Q S					
1413	1422	1431	1440	1449	1458
CAC CAT TTA TTT TCA TCA ATT TTA CCA TCA ACC AGG GCC TCT GTG CAT CTA CTA					
H H L F S S S I L P S T R A S V H L L					
1467	1476	1485	1494	1503	1512
AAG TCT ACC TCT GAT GCA TCC ACA CCA TGG TCT TCC TCA CCA TCA CCT TTA CCA					
K S T S D A S S T P W S S S S P S P L P					
1521	1530	1539	1548	1557	1566
GTA TCC TTA ACG ACA TCT ACA TCT GCC CCA CTT TCT GTC TCA CAA ACA ACC TTG					
V S L T T S T S A P L S V S Q T T L					

FIGURE 1D

1575	1584	1593	1602	1611	1620
CCA CAG TCA TCT TCT ACC CCT GTC CTG CCC AGG GCA AGG GAG ACT CCT GTG ACT					
---	---	---	---	---	---
P Q S S S T P P V L P R A R E T P V T					
1629	1638	1647	1656	1665	1674
TCA TTT CAG ACA TCA ACA ATG ACA TCA TTC ATG ACA ATG CTC CAT AGT AGT CAA					
---	---	---	---	---	---
S F Q Q T S T M T S F M T M L H S S Q					
1683	1692	1701	1710	1719	1728
ACT GCA GAC CTT AAG AGC CAG AGC ACC CCA CAC CAA GAG AAA GTC ATT ACA GAA					
---	---	---	---	---	---
T A D L K S Q S T P H Q E K V I T E					
1737	1746	1755	1764	1773	1782
TCA AAG TCA CCA AGC CTG GTG TCT CTG CCC ACA GAG TCC ACC AAA GCT GTA ACA					
---	---	---	---	---	---
S K S P S L S L S L P T E S T K A V T					
1791	1800	1809	1818	1827	1836
ACA AAC TCT CCT TTG CCT CCA TCC TTA ACA GAG TCC TCC ACA GAG CAA ACC CTT					
---	---	---	---	---	---
T N S P L P P P S L T E S S T E Q T L					
1845	1854	1863	1872	1881	1890
CCA GCC ACA AGC ACC AAC TTA GCA CAA ATG TCT CCA ACT TTC ACA ACT ACC ATT					
---	---	---	---	---	---
P A T S T N L A Q M S P T F T T I					

FIGURE 1E

1899	1908	1917	1926	1935	1944
CTG AAG ACC TCT CAG CCT CTT ATG ACC ACT CCT GGC ACC CTG TCA AGC ACA GCA					
L K T S Q P L M T T P G T L S S T A					
1953	1962	1971	1980	1989	1998
TCT CTG GTC ACT GGC CCT ATA GCC GTA CAG ACT ACA GCT GGA AAA CAG CTC TCG					
S L V T G P I A V Q T T A G K Q L S					
2007	2016	2025	2034	2043	2052
CTG ACC CAT CCT GAA ATA CTA GTT CCT CAA ATC TCA ACA GAA GGT GGC ATC AGC					
L T H P E I L V P Q I S T E G G I S					
2061	2070	2079	2088	2097	2106
ACA GAA AGG AAC CGA GTG ATT GTG GAT GCT ACC ACT GGA TTG ATC CCT TTG ACC					
T E R N R V I V D A T T G L I P L T					
2115	2124	2133	2142	2151	2160
AGT GTA CCC ACA TCA GCA AAA GAA ATG ACC ACA AAG CTT GGC GTT ACA GCA GAG					
S V P T S A K E M T T K L G V T A E					
2169	2178	2187	2196	2205	2214
TAC AGC CCA GCT TCA CGT TCC CTC GGA ACA TCT CCT TCT CCC CAA ACC ACA GTT					
Y S P A S R S L G T S S P S P Q T T V					

FIGURE 1F

2223	2232	2241	2250	2259	2268
GTT TCC ACG GCT GAA GAC TTG GCT CCC AAA TCT GCC ACC TTT GCT GTT CAG AGC					
V S T A E D L A P K S A T F A V Q S					
2277	2286	2295	2304	2313	2322
AGC ACA CAG TCA CCA ACA ACA CTG TCC TCT TCA GCC TCA GTC AAC AGC TGT GCT					
S T Q S P T T L S S S A S V N S C A					
2331	2340	2349	2358	2367	2376
GTG AAC CCT TGT CTT CAC AAT GGC GAA TGC GTC GCA GAC AAC ACC AGC CGT GGC					
V N P C L H N G E C V A D N T S R G					
2385	2394	2403	2412	2421	2430
TAC CAC TGC AGG TGC CCG CCT TCC TGG CAA GGG GAT GAT TGC AGT GTG GAT GTG					
Y H C R C P P S W Q G D D C S V D V					
2439	2448	2457	2466	2475	2484
AAT GAG TGC CTG TCG AAC CCC TGC CCA TCC ACA GCC ACG TGC AAC AAT ACT CAG					
N E C L S N P C P S T A T C N N T Q					
2493	2502	2511	2520	2529	2538
GGA TCC TTT ATC TGC AAA TGC CCG GTT GGG TAC CAG TTG GAA AAA GGG ATA TGC					
G S F I C K C P V G Y Q L E K G I C					

FIGURE 1G

2547	2556	2565	2574	2583	2592
AAT TTG GTT AGA ACC TTC GTG ACA GAG TTT AAA TTA AAG AGA ACT TTT CTT AAT					
---	---	---	---	---	---
N L V R T F V T E F K L K R T F L N					
2601	2610	2619	2628	2637	2646
ACA ACT GTG GAA AAA CAT TCA GAC CTA CAA GAA GTT GAA AAT GAG ATC ACC AAA					
---	---	---	---	---	---
T T V E K H S D L Q E V E N E I T K					
2655	2664	2673	2682	2691	2700
ACG TTA AAT ATG TGT TTT TCA GCG TTA CCT AGT TAC ATC CGA TCT ACA GTT CAC					
---	---	---	---	---	---
T L N M C F S A L P S Y I R S T V H					
2709	2718	2727	2736	2745	2754
GCC TCT AGG GAG TCC AAC GCG GTG GTG ATC TCA CTG CAA ACA ACC TTT TCC CTG					
---	---	---	---	---	---
A S R E S N A V V I S L Q T T F S L					
2763	2772	2781	2790	2799	2808
GCC TCC AAT GTG ACG CTA TTT GAC CTG GCT GAT AGG ATG CAG AAA TGT GTC AAC					
---	---	---	---	---	---
A S N V T L L F D L L A D R M Q K C V N					
2817	2826	2835	2844	2853	2862
TCC TGC AAG TCC TCT GCT GAG GTC TGC CAG CTC TTG GGA TCT CAG AGG CGG ATC					
---	---	---	---	---	---
S C K S S A E V C Q L L L G S Q R R I					

FIGURE 1H



2871	2880	2889	2898	2907	2916
TTT AGA GCG GGC AGC TTG TGC AAG CGG AAG AGT CCC GAA TGT GAC AAA GAC ACC					
---	---	---	---	---	---
F R A G S L C C K R K S P E C D K D T					
2925	2934	2943	2952	2961	2970
TCC ATC TGC ACT GAC CTG GAC GGC GTT GCC CTG TGC CAG TGC AAG TCG GGA TAC					
---	---	---	---	---	---
S I C T D L D G V A L C Q C K S G Y					
2979	2988	2997	3006	3015	3024
TTT CAG TTC AAC AAG ATG GAC CAC TCC TGC CGA GCA TGT GAA GAT GGA TAT AGG					
---	---	---	---	---	---
F Q F N K M D H S C R A C E D G Y R					
3033	3042	3051	3060	3069	3078
CTT GAA AAT GAA ACC TGC ATG ATG TGC CCA TTT GGC CTT GGT GGT CTC AAC TGT					
---	---	---	---	---	---
L E N E T C M S C P F G L G L N C					
3087	3096	3105	3114	3123	3132
GGA AAC CCC TAT CAG CTT ATC ATC ACT GTG GTG ATC GCA GCC GCG GGA GGT GGG CTC					
---	---	---	---	---	---
G N P Y Q L I T V V I A A A G G G L					
3141	3150	3159	3168	3177	3186
CTG CTC ATC CTA GGC ATC GCA CTG ATT GTT ACC TGT TGC AGA AAG AAT AAA AAT					
---	---	---	---	---	---
L L I L G I A L I V T C C R K N K N					

FIGURE II

3195	3204	3213	3222	3231	3240
GAC ATA AGC AAA CTC ATC TTC AAA AGT GGA GAT TTC CAA ATG TCC CCA TAT GCT					
---	---	---	---	---	---
D I S K L I F K S G D F Q M S P Y A					
3249	3258	3267	3276	3285	3294
GAA TAC CCC AAA AAT CCT CGC TCA CAA GAA TGG GGC CGA GAA GCT ATT GAA ATG					
---	---	---	---	---	---
E Y P K N P R S Q E W G R E A I E M					
3303	3312	3321	3330	3339	3348
CAT GAG AAT GGA AGT ACC AAA AAC CTC CTC CAG ATG ACG GAT GTG TAC TAC TCG					
---	---	---	---	---	---
H E N G S T K N L L Q M T D V Y Y S					
3357	3366	3375	3384	3393	3402
CCT ACA AGT GTA AGG AAT CCA GAA CTT GAA CGA AAC GGA CTC TAC CCG GCC TAC					
---	---	---	---	---	---
P T S V R N P E L E R N G L Y P A Y					
3411	3420	3429	3438	3447	3456
ACT GGA CTG CCA GGA TCA CGG CAT TCT TGC ATT TTC CCC GGA CAG TAT AAC CCG					
---	---	---	---	---	---
T G L P G S R H S C I F P G Q Y N P					
3465	3474	3483	3492	3501	3510
TCT TTC ATC AGT GAT GAA AGC AGA AGA GAC TAC TTT TAA GTC CAG GAG AGA					
---	---	---	---	---	---
S F I S D E S R R R D Y F					

FIGURE 1J

3519	GAG GGA CTC	3528	ATT GCT CTG	3537	CAG TCA CCT	3546	GGG ACC TCT	3555	GCT CAG AGG	3564	ACC GCA
3573	CCA GGA GGC	3582	TGC GCC CAG	3591	GAT TTG TCG	3600	GGA GCC CTG	3609	AGT GGC AAG	3618	CAG GAA
3627	GAG GGA CAG	3636	GCA TGC GGG	3645	GCG TGA CCA	3654	CAG TGG AGG	3663	AGA CAG GTG	3672	GAT GTG GAA
3681	CCA CAG GCT	3690	GCT CAT TCA	3699	GCA CCT TTG	3708	TTA CTG TGA	3717	ACG TGA ATG	3726	TGG GCC
3735	AGT ATC AAG	3744	AGA GTC TCT	3753	CTG AGT GAC	3762	ACC ATG GCA	3771	CTG CCA CCA	3780	GGG CGA
3789	CTA TTA GCC	3798	AGG GCA GAC	3807	CAC TAG ACT	3816	GTG CAG GGA	3825	CCT GGT TTT	3834	CCC TTC
3843	GTT TGC ACT	3852	TTA GTA AAT	3861	TGG GTG GGA	3870	TTC CTT TTG	3879	GAT CTG TTT	3888	TGA GAC
3897	TGT TCC AGA	3906	AAG AAG GCT	3915	TCC TTT CCC	3924	GAG ACA CTT	3933	TAG GCA GCA	3942	ATT TGG
3951	TGA TTC ATT	3960	TGC AGC AAA	3969	ATA CTG GCT	3978	TAA TTA TTT	3987	TCC TGC CCA	3996	GCG CCT
4005	GCG TGC TAA	4014	ACA ACA GAT	4023	GAG GAT GAG	4032	ACC ACT GAA	4041	GTC TGA AGA	4050	TGT CGC

FIGURE 1K

4059	CAT TGA ACG GAC AGT GTT TTC ATA TGT TTC TAG GTT GTC TTA TGC TAC AGT TTC	4068	4077	4086	4095	4104
4113	CAA GCC AGC CCC CAC AGT GAG GAA ATG TGT GAG GCA CCG CAC ACA ACT GCA ATG	4122	4131	4140	4149	4158
4167	TGT TTT TTA AGT CAA GGT GAC ACA TGT ATT TAA GAT TTT TTA AAA TCT CTT	4176	4185	4194	4203	4212
4221	TGC AGT TAA ATC TCA CTT TTT CAA ACA AGC CTG GAT CAG GGC AAA ACA ACT TAT	4230	4239	4248	4257	4266
4275	ATT TGG TTT TAG CTG GAG GCT CAG CAG GCA GAT TGC AGG CAG GGC ACT TTT	4284	4293	4302	4311	4320
4329	CAT CCA TGA GGG CCC AGC CTG GGG CCT GGG ACT CTG ATC ACC ATT GTG GAG GCC	4338	4347	4356	4365	4374
4383	AGA GGC AGC TGC GTA TGG AGG AGA AAT GTC AAA CTG AAC GCA GGT TTC ACC ACT	4392	4401	4410	4419	4428
4437	CTA GGA AAG CAG CTT GTT GAG CCC CTG CAG CTG GAT GTG GTT AGA GGG ATG GGC	4446	4455	4464	4473	4482
4491	TGA ATA GGC AGG TTA GAT TTC CTG CAT CAA CAG TGC TTT GGG AAG CTG TGT GGA	4500	4509	4518	4527	4536
4545	TTC CTG AGG AAG AAC AGG GAG CCG AGA TGG AGC CAC ACA TGA GTT TGC TCA CCG	4554	4563	4572	4581	4590

FIGURE 1L

4599	4608	4617	4626	4635	4644
GCT ACT GCA GCA CTT TGT ACC CAG AAT CTC ATG TCC ACA AAC CCC ATG TAA ACT					
4653	4662	4671	4680	4689	4698
TTC AAC CAC TCA AAG CTG TTT ATT CGG CTG AAG AAA TAA CTT TTT TTC CTC ACC					
4707	4716	4725	4734	4743	4752
CAG TCA TTT GTA CCT CTT CAT ATG GCT GTG TCG CAC CCT CCA GAA ACG TGG TTA					
4761	4770	4779	4788	4797	4806
TAC TTC CAG TCA GTG TGG GAG AAC TGA AGA CTT CCG GTT GGT CGA GGA ACT GAG					
4815	4824	4833	4842	4851	4860
GGT TGA CCT TCG GGA AGG AAG TTC CAC TCA TCT TAT TTA TTA TGC CTG TGA TGT					
4869	4878	4887	4896	4905	4914
GGG TCC TGC CAG GGA GAC ATC CAG TAC TCG GTG TCT TTA ATT GCC ACC TGG GGA					
4923	4932	4941	4950	4959	4968
ACT GTG TTT ATT GGC CTT CTT TGG GGC ATC CTG GTT TTG GAT GAA GTG AGG GGA					
4977	4986	4995	5004	5013	5022
ATA CAG AGG TAA AAG AAT TGT CTC CAC CCT GAA GCG GGG AGT CCC GCT TCA CAT					
5031	5040	5049	5058	5067	5076
TTC TGG AAA TGG TGC AGC CAC TGG GGA CAG TTC TGC CCC GGG CAT GGT TGT TTC					
5085	5094	5103	5112	5121	5130
TTC AAG GTC CTC TAA ATA TAA TCC CTA TTC TTA CAT AAT CCT TGG CCC TGA TGG					

FIGURE 1M

5139	5148	5157	5166	5175	5184
TTT TAA GCA AGA ACT CCT GTG TCC CAT GGT CTC CAC TCA CCA TCA CCC TGC					
5193	5202	5211	5220	5229	5238
TGT AGC AAG AGT CCT AGT CAG GGG AGG TGC ATT TTA GTA GTT AAA TTG CAC TTA					
5247	5256	5265	5274	5283	5292
TCC ATG AGA TAA ATA AAA GGA GAA CTG TTT TTA TCA GTG GAG GCT AAC CTA AAA					
5301	5310	5319	5328	5337	5346
TTT CAA AGT GTC GCC TTT TTG AAA TCT TGG GCC TCT CTC TCT GTA GAA CCA ATG					
5355	5364	5373	5382	5391	5400
GCC CTT TGT GGC TCA CGG CCT CGC ACC TAA CTG GAG AGT TCT GAG CTC CTG CAG					
5409	5418	5427	5436	5445	5454
CTC ACC TGA GCC CAC AGA CTA GGC TTC TTG GCT CCT TCC GCA GCA TGC CTG CTC					
5463	5472	5481	5490	5499	5508
ACC CCC AGA ACC CGC AGC TGT GGT GAG AAG AGC CAT GTA GGG AGG CTA TTC CCA GGC					
5517	5526	5535	5544	5553	5562
ATA CAC TTC CAC TGC CTT CAG CTG ACG TCA CAG CTG ACA AAT CAT CTC CTC TAT					
5571	5580	5589	5598	5607	5616
CGG AGC CAG AAG ACT TCA GCT CCA CAA AAT GAA GTG TTC TGT CCT GAA AAC ATT					
5625	5634	5643	5652	5661	5670
CTT GGG AAG AAT CCC AAC ATC GAG AAA ACG GTG TCC TGT GAG TTC CAA CAA TGC					

FIGURE 1N

5679	TTC TTG TTC	5688	ATG GGT TTC	5697	TTC ATG GAG	5706	TGG ATT AAG	5715	AGT GTT TTA	5724	TTT TGT
5733	TGT TCT AAC	5742	TGA GAA AAA	5751	AAG GAG GCA	5760	CCC ACA AGG	5769	TTG AGG TCA	5778	CAC AGT CTC
5787	CAC AGT TTC	5796	CAG GAG GCG	5805	TTT GGG GGT	5814	GGG GAA GGC	5823	ACC TCC AGA	5832	GCA TGA GGC
5841	TCT AAG GGG	5850	ACA TGA GTA	5859	AAG CAT GTC	5868	GAC CCA GTG	5877	AGG AAG GGA	5886	GAG GCC
5895	AGC TGC ACT	5904	CCT GCA CGG	5913	GGT TCC TAG	5922	CAG CTG CAG	5931	GGT CCC GCC	5940	TAG GCC GAG
5949	GGG AAA CAC	5958	CTG ATA GCA	5967	GAG GCC TGG	5976	ATG CAC ACC	5985	TGG CAC GCC	5994	GAG GCT
6003	CTC CGC CCA	6012	GAC ACA GTG	6021	CTC CAT GTC	6030	CCC TGC ACC	6039	TGG GGT GTG	6048	TGA TTC
6057	ACG TGC ACA	6066	GAT GCC ACA	6075	ATC CTG CAC	6084	TAT CCC ACA	6093	GAT GGG GGA	6102	AGG TGA
6111	GAG GAA GGG	6120	GCA AGT GAT	6129	GTG TAA CTG	6138	AAG AGA TGC	6147	TTA AAC CTC	6156	CAT AGA
6165	GAG GAG CCG	6174	GGC GCA GGG	6183	GCA TCT GTG	6192	CCC GTC ACA	6201	CAC TGC AGC	6210	AGG GAA

FIGURE 10

6219	GGG TGG CTG GCT GGC TCC CTG GCA TCA GTG GTT TGG TTT AAG CTC CAG AGG GTC	6228	6237	6246	6255	6264
6273	TTA TTG CCA TTG TCT TTT CCT CTG CCC CTT GAG CCA GCC TAA GGC CCT GGA GTC	6282	6291	6300	6309	6318
6327	TGT TTC TTT AGG CGG ATG AAC TGA CAT GCT CCT ACC ATG ACC AGG CTC TGG GCA	6336	6345	6354	6363	6372
6381	AGG CTC CTC ACA GTA TCC TTG AGA GGT GGG CAT GGA AGT GCC CAT TTC TCA GGT	6390	6399	6408	6417	6426
6435	ACA GAA ACC TTC AGA GAG GAT AAA TAG CTT GCC CTG TAG AAG CAG GAC TGA AAC	6444	6453	6462	6471	6480
6489	CCT TGT CCG CCT GAC TCC CCC AGC TAC TCT GCC CAC TGT AGC CCC CTG CCT TAC	6498	6507	6516	6525	6534
6543	TGT CCT GGC ACA CCC CTC ACC ATC CTG TAT ACC TTA AAT ATC AAA GAG GGC AAG	6552	6561	6570	6579	6588
6597	AGA GAA AGG GCT TTA AAG ATA AGT TAT TTT TTT AAG GAA CCT TAA TAT TAT TTT	6606	6615	6624	6633	6642
6651	TAA GAA GTA ACC AAA TTA GTG ACG TGA AAT GCA AAA AAA AAA AAT GCT	6660	6669	6678	6687	6696
6705	GAC TAC CCT TTT GAA AAT GTG CTT TCA GAT TGT TTT TTA TAT GTA ATT CTT AGA	6714	6723	6732	6741	6750

FIGURE 1P



Sequence "34204360"

6759	CAC TTG TCA TTA AGA AAA TAG TGG CTG GCT TGT GCT CAG CAA GAA GCA CAC TGG	6768	6777	6786	6795	6804
6813	CAC GTG GCT TTG GTA TAG GAA GTG GAA GGC AAG GAC CTG GGT TTC TGA CAA GTG	6822	6831	6840	6849	6858
6867	CCG TCA GAC TTA CCC TTC CAT CTG GAG AGC TGG TGG CTT TGG TCC CCT GGG TAG	6876	6885	6894	6903	6912
6921	GGC CAT GGG TTC CCC ACT ATT ACT GGG AAG CTA TAG GGT G 3'	6930	6939	6948		

FIGURE 1Q

1	M	S	Q	T	E	T	V	S	R	S	V	A	P	M	R	G	G	E	I	T	A	H	W	L	L	T	N	S	T	T	182514CD1
1	-	I	T	I	T	E	T	S	H	S	T	P	S	Y	T	T	S	I	T	T	E	T	P	S	H	S	T	P	g2853301		
1	P	I	S	V	Q	P	S	S	S	S	S	S	P	-	-	-	-	T	S	T	T	S	V	Q	S	S	S	S	g915208		
31	S	A	D	V	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	182514CD1		
30	S	Y	T	T	S	I	T	T	T	E	T	P	S	H	S	T	P	S	F	T	S	I	T	T	T	E	T	T	S	g2853301	
27	S	V	P	I	P	S	T	T	T	S	V	Q	P	S	S	G	S	A	P	T	T	S	A	T	S	V	Q	T	S	g915208	
36	G	S	S	A	S	Y	P	E	G	V	N	A	S	V	L	T	Q	F	S	D	S	T	V	Q	S	G	G	S	-	182514CD1	
60	H	S	T	P	S	F	T	S	S	I	R	T	E	T	T	S	Y	S	T	P	S	F	T	S	S	N	T	I	T	g2853301	
57	S	S	S	P	P	I	S	S	T	I	S	V	Q	T	S	S	-	-	-	-	-	-	-	-	-	-	-	-	g915208		
64	-	H	T	A	L	G	D	R	S	Y	S	E	S	S	S	T	S	S	E	S	L	N	S	S	A	P	R	G	E	182514CD1	
90	E	T	T	S	H	S	T	P	S	Y	I	T	S	I	T	T	E	T	P	S	S	S	T	P	S	F	S	S	S	g2853301	
74	-	-	-	-	-	-	-	-	-	-	-	S	S	V	P	T	T	S	T	S	V	Q	P	S	S	S	S	A	g915208		
93	R	S	I	A	G	I	S	Y	G	Q	V	R	G	-	-	T	A	I	E	Q	R	T	S	S	D	H	T	D	H	T	182514CD1
120	I	T	T	E	T	S	H	S	T	S	T	P	G	F	T	S	S	I	T	T	E	T	T	S	H	S	T	P	S	g2853301	
93	P	T	T	R	A	T	S	V	Q	S	S	S	S	S	S	A	P	I	S	S	T	T	S	V	Q	-	-	-	P	g915208	
121	Y	L	S	S	T	F	T	K	G	E	R	A	L	L	S	-	-	-	-	-	I	T	D	N	S	S	S	S	D	182514CD1	
150	F	T	S	S	I	T	T	T	E	T	T	S	H	D	T	P	S	F	T	S	I	T	T	S	E	T	P	S	H	g2853301	
120	S	S	G	S	V	P	T	T	S	A	T	S	V	Q	S	S	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	g915208

FIGURE 2A

145	I	V	E	S	S	T	S	Y	I	K	I	S	N	S	S	H	S	E	S	S	F	S	H	A	Q	T	E	R	S	182514CD1	
180	S	T	P	S	S	T	S	L	I	T	T	K	T	S	H	S	T	P	S	F	T	S	I	T	T	T	T	E	g2853301		
150	P	S	S	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	P	P	I	S	S	T	V	S	V	Q	P	g915208	
175	N	I	S	S	Y	D	G	E	Y	A	Q	P	S	T	E	S	P	V	L	H	T	S	N	L	P	S	Y	T	P	T	182514CD1
210	T	T	S	H	S	A	R	S	F	T	S	S	I	T	T	E	T	-	T	S	H	N	T	R	S	F	T	S	S	g2853301	
167	S	S	S	S	S	A	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208		
205	I	N	M	P	N	T	S	V	V	L	D	T	A	E	F	V	S	D	S	S	S	S	S	S	S	S	S	S	S	182514CD1	
239	I	T	T	E	T	N	S	-	-	-	H	S	T	S	F	T	S	S	I	T	T	E	T	T	S	H	S	T	g2853301		
174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	T	S	A	T	S	V	Q	P	S	S	S	S	g915208		
235	S	S	G	P	P	L	P	-	-	-	-	-	-	-	-	-	-	-	L	P	S	V	S	Q	S	H	H	L	F	182514CD1	
267	P	S	F	S	S	I	T	T	T	E	T	P	L	H	S	T	P	G	L	P	S	W	V	T	T	K	T	T	g2853301		
188	P	P	I	S	S	T	V	S	V	Q	T	S	S	S	S	S	V	P	-	-	-	-	-	-	-	T	T	S	T	g915208	
254	S	S	I	L	P	S	T	R	A	S	V	H	L	L	K	S	T	S	D	A	S	T	P	W	S	S	P	S	P	182514CD1	
297	S	H	I	T	P	G	L	T	S	S	I	T	T	E	T	S	T	S	H	S	T	P	G	F	T	S	I	T	T	g2853301	
210	T	S	V	Q	P	S	S	S	S	S	V	P	T	T	S	A	T	S	-	-	-	-	-	-	V	R	S	S	S	g915208	
284	L	P	V	S	L	T	T	S	T	S	A	P	L	S	V	Q	T	T	L	P	Q	S	S	S	T	P	V	L	P	182514CD1	
327	T	E	T	S	E	S	T	P	S	L	S	S	S	T	I	Y	S	T	V	S	T	S	T	T	A	I	T	S	H	g2853301	
234	S	S	T	P	I	P	S	T	T	S	V	Q	P	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	P	S	g915208	

FIGURE 2B

314	R	A	R	E	T	P	V	T	S	F	Q	T	S	T	M	T	S	F	M	T	M	L	H	S	S	Q	T	A	D	L	182514CD1
357	F	T	T	S	E	T	A	V	T	P	T	P	V	T	P	S	S	L	S	T	D	I	P	T	T	S	L	R	T	L	g2853301
264	S	S	S	S	T	P	I	P	S	T	T	S	V	Q	P	S	S	-	S	S	A	P	T	T	S	A	T	S	V	g915208	
344	K	S	Q	S	T	P	H	Q	E	K	V	I	T	E	S	K	S	P	S	L	-	-	-	V	S	L	P	T	E	S	182514CD1
387	T	P	S	S	V	G	T	S	T	S	L	T	T	T	D	F	P	S	I	P	T	D	I	S	T	L	P	T	R	g2853301	
293	Q	P	S	S	S	S	-	-	-	-	-	-	-	-	-	-	P	P	I	S	S	T	I	S	V	Q	P	S	S	g915208	
371	T	K	A	V	T	T	N	S	P	L	P	P	S	L	T	E	S	S	T	E	Q	T	L	P	A	T	S	T	N	L	182514CD1
417	T	H	I	I	S	S	S	P	S	I	Q	S	T	E	T	S	S	L	V	G	T	T	S	P	T	M	S	T	V	R	g2853301
313	S	-	-	-	S	S	S	P	T	T	S	T	T	S	V	Q	P	S	S	S	G	S	A	P	T	T	S	A	T	S	g915208
401	A	Q	M	S	P	T	-	-	-	-	-	-	F	T	T	I	L	K	T	S	Q	P	L	M	T	T	P	G	182514CD1		
447	M	T	L	R	I	T	E	N	T	P	I	S	S	F	S	T	S	I	V	I	P	E	T	P	T	Q	T	P	P	g2853301	
340	V	Q	P	S	S	S	S	P	P	I	S	S	-	-	-	T	I	S	V	Q	P	S	S	S	S	S	S	P	T	g915208	
424	T	L	S	S	T	A	S	L	V	T	G	P	I	A	V	Q	T	T	-	A	G	K	Q	L	S	L	T	H	P	E	182514CD1
477	V	L	T	S	A	T	G	T	Q	T	S	P	A	P	T	V	T	F	G	S	T	D	S	S	T	S	T	L	H	g2853301	
367	-	-	T	S	T	S	V	Q	P	S	S	G	S	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
453	I	L	V	P	Q	I	S	T	E	G	G	I	S	T	E	R	N	R	V	I	V	D	A	T	T	G	L	I	P	L	182514CD1
507	T	L	T	P	S	T	A	L	S	T	I	V	S	T	S	Q	V	P	I	P	S	T	H	S	S	T	L	Q	T	T	g2853301
381	-	-	-	P	T	T	S	A	T	S	V	Q	P	S	S	S	S	V	P	T	T	S	A	T	S	V	R	S	S	S	g915208

FIGURE 2C

483	T	S	V	P	T	S	A	K	E	M	T	T	K	L	G	V	T	A	E	Y	S	P	A	S	R	S	L	G	T	S	182514CD1
537	P	S	T	P	S	-	-	-	-	L	Q	T	S	L	T	S	T	S	E	F	T	T	E	S	F	T	R	G	S	T	g2853301
408	S	S	S	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
513	P	S	P	Q	T	T	V	S	T	A	E	D	L	A	P	K	S	A	T	F	A	V	Q	S	S	T	Q	S	P	182514CD1	
563	S	T	N	A	I	L	T	S	F	S	T	I	I	W	S	T	P	T	I	I	M	S	S	S	P	S	S	A	S	g2853301	
413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	I	P	T	T	S	V	Q	P	S	S	S	S	S	S	g915208	
543	T	T	L	S	S	A	S	V	N	S	C	A	V	N	P	C	L	H	N	G	E	C	V	A	D	N	T	S	R	182514CD1	
593	I	T	P	V	F	S	T	I	H	S	V	P	S	S	P	Y	I	F	S	T	E	N	V	G	S	A	S	I	T	g2853301	
428	V	P	T	S	A	T	S	V	Q	T	S	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
573	G	Y	H	C	-	R	C	P	P	S	W	Q	G	D	D	C	S	V	D	V	N	E	C	L	S	N	-	-	-	-	182514CD1
623	G	F	P	S	L	S	S	A	T	T	S	T	S	S	T	S	S	S	L	T	T	A	L	T	E	I	T	P	F	g2853301	
444	-	-	T	P	I	P	S	T	T	S	V	Q	P	S	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	P	-	g915208
598	-	-	-	-	-	-	-	-	-	P	C	P	S	T	A	T	C	N	N	T	Q	G	S	F	I	C	K	C	P	V	182514CD1
653	S	Y	I	S	L	P	S	T	T	P	C	P	G	T	I	T	I	T	I	V	P	A	S	P	T	D	P	C	-	V	g2853301
471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	P	P	I	S	S	T	-	I	g915208		
619	G	Y	Q	L	E	K	G	I	C	N	L	V	R	T	F	V	T	E	F	K	L	K	R	T	F	L	N	-	-	T	182514CD1
682	E	M	D	P	S	T	E	A	T	S	P	P	T	T	P	L	T	V	F	P	F	T	T	E	M	V	T	C	P	T	g2853301
483	S	V	Q	P	S	S	S	S	S	P	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	

FIGURE 2D

647	T	V	E	K	H	S	D	L	Q	E	V	E	N	E	I	T	K	T	L	N	M	C	F	S	A	L	P	S	Y	I	182514CD1
712	S	I	S	I	Q	T	L	L	T	Y	M	D	T	S	S	M	P	E	S	E	S	S	I	S	P	N	A	S	g2853301		
496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	T	T	S	V	Q	P	S	S	g915208		
677	R	S	T	V	H	A	S	R	E	S	N	A	V	V	I	S	-	L	Q	T	T	F	S	L	A	S	N	V	T	182514CD1	
742	S	S	T	G	T	G	T	V	P	T	N	T	V	F	T	S	T	R	L	P	T	S	E	T	W	L	S	N	S	g2853301	
506	G	S	A	P	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208		
705	L	F	D	L	A	D	R	M	Q	K	C	V	N	-	S	C	K	S	S	A	E	V	C	Q	L	L	G	S	Q	R	182514CD1
772	V	I	P	L	P	L	P	G	V	S	T	I	P	L	T	M	K	P	S	S	S	L	P	T	I	L	R	T	S	S	g2853301
511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	S	A	g915208	
734	R	I	F	R	A	G	S	L	C	K	R	K	S	P	E	C	D	K	D	T	S	I	C	T	D	L	D	G	V	A	182514CD1
802	K	S	T	H	P	S	P	P	T	T	R	T	S	E	T	P	V	A	T	T	Q	T	P	T	T	L	T	S	R	R	g2853301
514	T	S	V	Q	P	S	S	-	-	-	-	-	S	S	P	P	I	S												g915208	
764	L	C	Q	C	K	S	G	Y	F	Q	F	N	K	M	D	H	S	C	R	A	C	E	D	G	Y	R	L	E	N	E	182514CD1
832	T	T	R	I	T	S	Q	M	T	T	Q	S	T	L	T	T	A	G	T	C	C	D	N	G	G	T	W	E	Q	G	g2853301
528																														g915208	
794	T	C	M	S	C	P	F	G	L	G	G	L	N	C	G	N	P	Y	Q	L	I	T	V	V	I	A	A	A	G	-	182514CD1
862	Q	C	-	A	C	L	P	G	F	S	G	D	R	C	-	-	-	-	Q	L	Q	T	R	C	Q	N	G	G	Q	W	g2853301
528																														g915208	

FIGURE 2E

823	G	G L	L L I L G I A L I V T C	C	R K N K N D I S K L I F K S	182514CD1
887	D	G L	K C Q C P S T F Y G S S	C	- - - E F A V E Q V D L D A	g2853301
528						g915208
853	G	D F	- - Q M S P Y A E Y P K N	P	R S Q E W G R E A I E M H	182514CD1
914	E	D F	C R H A G L H L Q G C G D	P	V P E E W Q H - - - -	g2853301
528						g915208
881	E	N G S T K N L L Q M T D V Y S P T S V R N P E L E	R	N	G	182514CD1
938	-	- - - - - - - - - - - - - - - -	-	-	R	g2853301
528					G	g915208
911	L	Y P A Y T G L P G S R H S C I F	P	G	Q Y N P S F I S D E S	182514CD1
941	L	- - - - - - - - - - - - - - - -	P	G	P A G D A L Q P P A G	g2853301
528						g915208
941	R	R R D Y F				182514CD1
955	E	R	- - - - V			g2853301
528						g915208

FIGURE 2F